

# PRODUCT DATASHEET

## PIN 20 1.9 W/2700 K G9

LED PIN G9 | LED lamps with retrofit pin base G9



### Areas of application

- Atmospheric accent lighting throughout the home
- Shops, hotels and restaurants
- Outdoor applications only in suitable luminaires

### Product benefits

- Good all-around light emission
- Long lifetime of up to 15,000 h
- Ideal for decorative and free-burning applications
- Three year guarantee

### Product features

- LED alternative to conventional high voltage lamps
- Good quality of light; color rendering index  $R_a \geq 80$ ; constant chromaticity



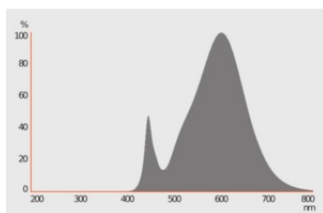
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**TECHNICAL DATA****Electrical data**

|                                          |             |
|------------------------------------------|-------------|
| Nominal wattage                          | 1.9 W       |
| Construction wattage                     | 1.90 W      |
| Nominal voltage                          | 220...240 V |
| Claimed equiv. conventional lamp power   | 20 W        |
| Nominal current                          | 16 mA       |
| Type of current                          | AC          |
| Inrush current                           | 3.84 A      |
| Operating frequency                      | 50/60 Hz    |
| Mains frequency                          | 50/60 Hz    |
| Max. lamp no. on circuit break. 10 A (B) | 27          |
| Max. lamp no. on circuit break. 16 A (B) | 32          |
| Total harmonic distortion                | 141 %       |
| Power factor $\lambda$                   | > 0.40      |

**Photometrical data**

|                                         |            |
|-----------------------------------------|------------|
| Luminous flux                           | 200 lm     |
| Nominal useful luminous flux 90°        | 200 lm     |
| Luminous efficacy                       | 105 lm/W   |
| Lumen main.fact.at end of nom.life time | 0.70       |
| Light color (designation)               | Warm White |
| Color temperature                       | 2700 K     |
| Color rendering index Ra                | ≥80        |
| Light color                             | 827        |
| Standard deviation of color matching    | ≤6 sdcn    |
| Rated LLMF at 6,000 h                   | 0.80       |
| Flickering metric (Pst LM)              | 1.0        |
| Stroboscope effect metric (SVM)         | 0.4        |



### Light technical data

|                                    |          |
|------------------------------------|----------|
| Beam angle                         | 300 °    |
| Warm-up time (60 %)                | < 0.50 s |
| Starting time                      | < 0.5 s  |
| Rated beam angle (half peak value) | 300.00 ° |

### Dimensions & Weight

|                  |          |
|------------------|----------|
| Overall length   | 46.00 mm |
| Diameter         | 15,0 mm  |
| Maximum diameter | 15 mm    |
| Product weight   | 5.00 g   |

### Temperatures & operating conditions

|                                      |              |
|--------------------------------------|--------------|
| Ambient temperature range            | -20...+40 °C |
| Maximum temperature at tc test point | 59 °C        |

### Lifespan

|                                     |         |
|-------------------------------------|---------|
| Nominal lamp life time              | 15000 h |
| Number of switching cycles          | 100000  |
| Lumen maintenance at end of serv    | 0.70    |
| Rated lamp survival factor at 6,000 | ≥ 0.90  |

## Additional product data

|                             |        |
|-----------------------------|--------|
| Base (standard designation) | G9     |
| Mercury content             | 0.0 mg |
| Mercury-free                | Yes    |
| Design / version            | Clear  |

## Capabilities

|          |    |
|----------|----|
| Dimmable | No |
|----------|----|

## Certificates &amp; Standards

|                                              |                 |
|----------------------------------------------|-----------------|
| Energy efficiency class                      | F <sup>1)</sup> |
| Energy consumption                           | 2.00 kWh/1000h  |
| Type of protection                           | IP20            |
| Standards                                    | CE / EAC        |
| Photobiological safety group acc. to EN62778 | RG1             |

<sup>1)</sup> Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)

## Country-specific categorizations

|                 |                 |
|-----------------|-----------------|
| Order reference | LEDPIN20 CL 1,9 |
|-----------------|-----------------|

## LOGISTICAL DATA

|                              |              |
|------------------------------|--------------|
| Temperature range at storage | -20...+80 °C |
|------------------------------|--------------|

## Energy labelling regulation data acc EU 2019/2015

|                                                     |              |
|-----------------------------------------------------|--------------|
| Lighting technology used                            | LED          |
| Non-directional or directional                      | NDLS         |
| Mains or non-mains                                  | MLS          |
| Light source cap-type (or other electric interface) | G9           |
| Connected light source (CLS)                        | No           |
| Color-tuneable light source                         | No           |
| Envelope                                            | No           |
| High luminance light source                         | No           |
| Anti-glare shield                                   | No           |
| Correlated colour temperature type                  | SINGLE_VALUE |
| Standby power                                       | 0.00         |
| Claim of equivalent power                           | Yes          |
| Length                                              | 46.00 mm     |

|                                                      |                 |
|------------------------------------------------------|-----------------|
| Height                                               | 15,0 mm         |
| Width                                                | 15,0 mm         |
| Chromaticity coordinate x                            | 0.458           |
| Chromaticity coordinate y                            | 0.410           |
| R9 Colour rendering index                            | 0.00            |
| Beam angle                                           | SPHERE_360      |
| Survival factor                                      | 0.90            |
| Displacement factor                                  | 0.00            |
| LED light source replaces a fluorescent light source | not applicable  |
| EPREL ID                                             | 522874,522874   |
| Model number                                         | AC32109,AC32109 |

### Safety advice

- To ensure full light efficiency and product lifetime, it is recommended to detach any glass or cover of the luminaire.

### DOWNLOAD DATA

| DOWNLOAD DATA                                                                      |                                                                       |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
|  | Declarations of conformity<br>Self-ballasted LED lamp PIN 20,30,40_G9 |

### LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume               |
|---------------|------------------------------|--------------------------------------|--------------|----------------------|
| 4058075432307 | Folding box<br>1             | 20 mm x 49 mm x 95 mm                | 12.00 g      | 0.09 dm <sup>3</sup> |
| 4058075432314 | Shipping box<br>10           | 119 mm x 109 mm x 104 mm             | 151.00 g     | 1.35 dm <sup>3</sup> |
| 4058075626317 | Shipping box<br>6            | 109 mm x 79 mm x 104 mm              | 104.00 g     | 0.90 dm <sup>3</sup> |
| 4058075432321 | Shipping box<br>80           |                                      |              |                      |
| 4058075626324 | Shipping box<br>48           | 236 mm x 176 mm x 237 mm             | 1144.00 g    | 9.84 dm <sup>3</sup> |

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

### References / Links

- For Guarantee see [www.osram-lamps.com/guarantee](http://www.osram-lamps.com/guarantee)
  - For further products and actual information concerning LED lamps see [www.osram-lamps.com/led-lamps](http://www.osram-lamps.com/led-lamps)
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